

SYCH, V. YA.

PA 17/49T106

USSR/Metals
Steel, Alloys
Photoelectric Detectors

Jul 48

"Photoelectric Method for Determining Silicon,
Phosphorus Manganese, Chromium and Nickel in Steel
in One Operation," V. F. Mal'tsev, V. Ya. Sych, Sci
Res Pipe Inst, 4 pp

"Zavod Lab" Vol XIV, No 7-pp. 868-871

Describes method in detail. Saves both time and
reagents and is very useful when investigating
small quantities of metal.

17/49T106

S/0137/63/000/012/1096/1096

ACCESSION NR: AR4014157

SOURCE: RZh. Metallurgiya, Abs. 121679

AUTHOR: Mal'tsev, V. F.; Syrch, V. Ya.

TITLE: Method of withdrawing samples for ultramicroquantitative analysis from structural components of metals

CITED SOURCE: Sb. Proiz-vo trub. M., Metallurgizdat, vyp. 9, 1963, 132-135

TOPIC TAGS: Ultramicroquantitative steel analysis, steel sample drawing, steel microsection analysis, ultramicroquantitative metal analysis

TRANSLATION: A technique for withdrawing microsamples of the α phase from specimens of 1Kh18N9T steel is described. The microsection is coated with a film of transparent glyptal varnish and placed on the stage of the PMT-3 instrument, in which a drill with a diamond bit is mounted in place of the indenter. The varnish film is drilled over the selected grain of the α phase, a drop of electrolyte (20% solution of ammonium persulfate) is placed over the hole, and

Card 1/2

MAL'TSEV, V.F., kand. khim. nauk; SYCH, V.Ya., inzh.

Phototurbidimetric determination of small contents of carbon in
steel and alloys high in addition elements. Proizv. trub no.10:
114-119 '63. (MIRA 17:10)

L 29882-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD

ACC NR: AR6005812

SOURCE CODE: UR/0137/65/000/010/K006/K006

AUTHOR: Sych, V. Ya.; Mal'tsev, V. F.; Mal'chenko, L. P.

TITLE: Methods of hydrogen determination in titanium-alloy products

SOURCE: Ref. zh. Metallurgiya, Abs. 10K35

REF SOURCE: Sb. Proiz-vo trub. Vyp. 15. M., Metallurgiya, 1965, 135-136

TOPIC TAGS: titanium alloy, hydrogen, vacuum melting, hydrogen determination

ABSTRACT: Data have been compared concerning the H determination in Ti alloys by the vacuum-heat method at 1300C and by the vacuum-melting method at 1700C. The results obtained by the two methods differ only slightly. It was shown that pickling of samples does not lead to significant saturation of titanium with hydrogen. V. Romanova. [Translation of abstract.] [NT]

SUB CODE: 11/ SUBM DATE: none/

Card 1/1 FV

UDC: 669.788:543.27

L 37088-66 EWP(k)/EWT(m)/EWP(t)/ETI IJP(c) JD/HW

ACC NR: AR6005811

SOURCE CODE: UR/0137/65/000/010/K005/K005

AUTHOR: Sych, V. Ya.; Miroshnichenko, N. A.

TITLE: Potentiometric method for determination of carbon in thin walled pipe

SOURCE: Ref. zh. Metallurgiya, Abs. 10K29

REF SOURCE: Sb. Proiz-vo trub. Vyp. 15. M., Metallurgiya, 1965, 111-115

TOPIC TAGS: carbon, carbon steel, metal chemical analysis, calcination, alloy steel, pipe/Kh18N9T alloy steel

ABSTRACT: Carbon determination in high carbon alloyed steel and alloy is carried out using the barite potentiometric method. The effect of the fusing agent quality, the size of chips, and the method of removing impurity from the sample surface on the analysis results was determined. It was suggested that impurity be removed by preliminary calcination in an O₂ stream at 400 to 500°. To remove the fusing agent from CuO it must be calcinated at 800°. Pb must be remelted. The best fusing agent is Pb. The C in chromium steel can be determined without using a fusing agent, in such a case the temperature of combustion should be 1300°, the combustion time 10 min, and the sample thickness 0.3 mm. The results of carbon determination in thin walled Kh18N9T steel pipe showed good reproducibility. Disagreement amounts to only one thousandth of one per cent. A. Pomerantseva.

SUB CODE: C11, 13 DATE: none

Card 1/1

UDC: 669.784:543.257.1

27217

S/081/61/000/014/018/030

B117/B203

Electrolytic method of...

of Ni a little later. A noticeable dissolution of steel starts at +400 mv. The dissolution intensity decreases with increasing potential, but above 900 mv it begins to rise. In $C_2H_2O_4$, the anodic behavior of the metals studied is less differentiated, and the curves for steel and chromium are in full agreement. To study the electrochemical dissolution of 1Kh18N9T steel, a melt of the following composition (in %) was prepared: C 0.07, Mn 0.93, Si 0.50, Cr 18.6, Ni 9.3, Ti 0.43, the rest Fe. The specimens were subjected to heat treatment at 1350°C with subsequent hardening in water. Anodic dissolution was conducted in a 3% $(NH_4)_2S_2O_8$ solution acidified with H_2SO_4 at D_a 2 ma/cm² with a Pt cathode. After 1-2 min, the α -phase appeared on the ground surface. By measuring the grain width of the α -phase, 1 min and 4 hr after the beginning of electrolysis, it was found that only the α -phase was dissolved. [Abstracter's note: Complete translation.]

Card 2/2

3/081/62/000/009/022/075
B158/B101

AUTHORS: Mel'tsev, V. F., Sych, V. Ya.

TITLE: Photoelectric unit for colorimetry of micro- and ultramicro-quantitative colour substances

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 9, 1962, 167, abstract
9Ye19(Sb. "Proizvo trub", no. 4, Khar'kov, Metallurgizdat, 1961, 157 - 160)

TEXT: A photoelectric colorimeter, with diaphragms for emitting a narrow beam of light, a disc with a light filter assembly, and a cuvette of small diameter has been designed on the same system as the Davydov instrument. The unit comprises the colorimeter proper, a mirror galvanometer and a measuring device. The cuvette has a capacity of 5ml. The cuvette windows are of a larger diameter than the cuvette itself in order to keep the small-dimensioned cuvette stable in its holder. The mirror galvanometer is characterized by high sensitivity so as to permit of working with small quantities of substances and consequently with narrow beams of light.
[Abstracter's note: Complete translation.]

Card 1/1

D'YAKOV, V.; REN, Ye.

Reduce the delivery costs of canned fruit and vegetables. Mor.
Flat 25 no.9:10-11 S '65. (MIRA 18:9)

1. Zamestitel' nachal'nika pogruzochnogo uchastka Reniyskogo
porta (for D'yakov). 2. Starchiy dispetcher-tekhnolog pogruzochnogo
uchastka Reniyskogo porta (for Sych).

Cyanine dyes from amino derivatives of benzo[thiazole
A, I. Kilmartin and R. F. Borchers, Jour. nat. chem. Assoc.
4, 16-24 (1930); 1. Dimethylamino-1-methylbenzothiazole,
and 2. 1H-pyridine-3-amino-1-methylbenzothiazole and
in 75% prep. from 3-amino-1-methylbenzothiazole from
 β -MeNH₂SO₂Me, or by a Hantzsch synthesis from
PhNHMe, yields a colored 2-N- (I) and a colorless 3-N-
PhNHMe, yields a colored 2-N- (I) and a colorless 3-N-
methiodide, both m. 250° (decumpn.), and a 2-N- (II), m.
242° and 5-N-ethiodide, m. 149°, the yield of 2-N-deriv.
rises with increasing duration and temp. of reaction with
the alkyl iodides. 3-Methylamino-1-methylbenzothiazole,
the alkyl iodides. 2-N-ethiodide (III), m. 78°, was prep.
by 185-195°. 2-N-ethiodide (III), m. 78°, was prep.
analogously. In picoline (at the b. p.) HC(OEt)₂, and I
or II yield 3,5'-bis(dimethylcarbamoyl)-2,2'-dimethyl-, (IV),
m. 244°, or -2,2'-diethylthiocarbocyanine iodide (V) and
3,5'-bis(diethylamino)-2,2'-diethylthiocarbocyanine iodide
(VI) is prep. similarly from III. The 8-Me deriv. of IV
(VI) is obtained when NMe₃ is added to the reaction mixt.
The 3-Me derivs. of V and VI are prep. similarly to them.
The 8-Me deriv., in place of HC(OEt)₂. 2-Ethylpyridine
using MeC(OEt)₂, in place of HC(OEt)₂. 2-Ethylpyridine
ethiodide and I in EtOH-KOH (1 hr. at the b. p.) yield

4-dimethylamino-1-methyl-2'-ethylthio-*N*-cyanine iodide, m. 171°, while with quinoline methalsulfide 5-dimethylamino-1',2'-dimethoxybenzopyrene iodide, m. 176°, is obtained. Max. light absorption data are recorded for the above dyes. The dyes are valuable sensitizers of photographic emulsions. Cyanine dyes from isomeric dimethylbenzothiazoles. *Ibid.*, 25-32.—Thioacetonaldehyde in aq. NaOH and aq. K₂Fe(CN)₆ at 7° yield 1,4-dimethylbenzothiazole, bp 161-3°, the ethiodide, m. 150°, which gives 3,3'-dimethyl- or 3,3',8-trimethyl-2,2'-diethylthiocarbonylthiazole, bp 167-3°, or MeC(OEt)₂ or MeC(OH)(OEt), resp. 2-Amino-4-methylthiophenol and AcCl in C₆H₆ give 2-amino-4-methylthiophenyl iodide, m. 195 °, from which (at the b. p. for 2 hrs.) yield 1,4-dimethylbenzothiazole, bp 153-6°, m. 34°, the ethiodide, m. 195 °, from which (at the b. p. for 2 hrs.) yield 1,4-dimethyl- and 4,4',8-trimethyl-2,2'-diethylthiocarbonylthiazole, bp 167-3°, m. 150°. The sensitizing action of the thioarboyanine iodide is unaffected by the position of the Me, but isomeric dyes with bathochromic effect is given by the 4,4'-di-Me derivative.

11 C. A.

SYCH, YE. D.

Mr., Inst. Organic Chemistry, Dept. Chem. Sci., Acad. Sci., -1944-. "Color and Structure of Cyanine Dyes: I. Thio-Carbocyanines with Electropositive Substituents," Zhur. Obshch. Khim., 15, No. 3, 1945; "Amino Derivatives of Thiocyanogenic Dyestuffs: III," Ukr. Khim. Zhur., No. 1, 1948; " . . . IV, " ibid., 14, No. 1, 1949

SYOM, Ye. D.

Sych, Ye. D. "Amino-derivatives of thiocyanate dyes", Part III, Ukr. khim. zhurnal, 1949, Issue 1, P. 45-49.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).

SYCH, Ye. D.

Sych, Ye. D. - "Amino-derivative thiocyanine dies, IV", Ukr. khim. zhurnal, Vol. XIV, Issue 2, 1949, p. 107-21, - Bibliog: p. 121.

SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 21, 1949).

SYCH, E.D.!

Amino derivatives of this vaniline dres. V E D. Sych "7" m 103" (from EtOH). above N.A. serie m 225-

amido-5-chloro-2-benzothiazole)-5-methyl-1-methyl-2-cyanide per-
chlorate; m. 263°, absorption max. 335 mμ. Similar re-
action with EtC(OEt)₂ gave 50% green bis(2-ethyl-4-oxo-
amido-5-chloro-2-benzothiazole)-5-methyl-1-methyl-2-cyanide per-
chlorate; m. 263°, absorption max. 335 mμ. VI

nitro deriv. with Sn-HCl gave 60% 2-ethyl-5-chloro-4-
aminobenzothiazole, m. 105°, which on ac. deriv. (III), m.
219° (from EtOH). 2-Methyl-5-aminobenzothiazole, m.
161° (from EtOH) was prepd. by heating (H₂N)C₆H₄SH
and Ac₂O 4 hrs. Its Et 6-ethylmercaptate refluxed 45 min.

VI K soln: 100%
m. 263°, absorption max. 335 mμ. Similar re-
action with EtC(OEt)₂ gave 50% green bis(2-ethyl-4-oxo-
amido-5-chloro-2-benzothiazole)-5-methyl-1-methyl-2-cyanide per-
chlorate; m. 263°, absorption max. 335 mμ. VI

SYCH, Ye.D.

Amino derivatives of thiacyanine dyes. Report no.6. Ukr.khim.zhur. 18 no.2:
159-162 '52. (MLRA 6:9)

1. Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR.
(Cyanine dyes)

USSR

Synthesis of some indolenine derivatives and of indo-
carboxyanines. I. Indolenine with 4-nitro, 4-amino, 4-
acetamino, and 4-dialkylamino groups on the benzene ring.
E. D. Sorb, *Ukrain. Khim. Zhur.* 19, 643-51(1943) (in
Russian). Indolenine (I) derivs., contg. a NO₂ group in
the C₆H₄ ring, are prepd. by condensation of iso-PrCOMe
(II) (Whitmore and Evers, *C.A.* 27, 1322) and *o*- or *m*-
O₂NC₆H₄NH₂ (III) or 2,5-Cl(O₂N)₂C₆H₃NH₂ (IV)
(Blanksma, *et al.*, *C.A.* 40, 6434*) in glacial HOAc. These
can be transformed into H₂N, AcNH, and dialkylamino
derivs. of I. Ind-carboxyanine dyes are obtained by
condensation of the quaternary salts of substituted I with
orthoformate and their adsorption spectra are measured
(in EtOH soln.). II, b. 92°, is prepd. in 65% yield by
hydrolysis of Me₂CB₂CHBrMe, b. 58-62°, which is ob-
tained by bromination, in CCl₄ at -10°, of Me₂C=CHMe,
b. 35-8° [prepd. by passing vapors of iso-AmOH over
anhyd., granulated Al₂(SO₄)₃ in a copper tube at 450°].
III are prepd. by diazotization of *o*- and *m*-nitroanilines
followed by SnCl₄ reduction, in 70 and 60% yield, resp.
IV (49%), m. 150°, is similarly prepd. Heating 30 s. m.

(over)

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 III. HCl, 9 g. II, and 20 ml. glacial HOAc on a steam bath until the mixt. boils, alkalizing with Na_2CO_3 , extg. with C_6H_6 , and evapd. the ext. gives 23 g. thick oil which slowly crystallizes to yield 2,3,3-trimethyl-4-nitroindolenine (V), m. 133-7° (from EtOH). Crude V is used to prep. of the following quaternary salts: V. EtClO_4 (prepd. from V. p - MeC_6H_4 - SO_3Na); V.M.I (VI), m. 224°. VI, Me_2CO , and 40% NaOH are evapd. to give 1,3,3-trimethyl-2-methyl-4-nitroindolenine, m. 146° (from petr. ether). VI treated with metal Sn in HCl, treated with excess alkali, the residue extd. with Et_2O , and the calcd. amt. of 30% HClO_4 added to the ext. yields 2,3,4-trimethyl-4-aminoindolenine (VII) MeClO_4 salt, m. 212°. V (4 g.) reduced in 15 ml. HCl with 6 g. Sn until the yellow color disappears, the light pink soln. treated with excess alkali, the ppt. extd. with Et_2O , the Et_2O evapd., the residue (2 g.) heated 12 hrs. in a sealed tube at 110-20° with 7 g. MeI, the mixt. treated with 15 ml. H_2O and Et_2O , and the aq. ext. filtered and evapd., yields 4 g. 2,3,3-trimethyl-4-dimethylaminoindolenine (VU), which is used without

E. D. SYCH

further purification for the prepn. of the dyes. The 4-Et₃N homolog (VIIa) of VII is similarly prepd. II (1.2 g.), 3.3 g. IV.HCl, and 4 ml. glacial HOAc are heated 2 hrs., kept overnight, H₂O and Na₂CO₃ added, the mixt. extd. with Et₂O, and the aq. layer evapd. *in vacuo* to yield 2,3,3-trimethyl-1-*nitro*-7-chloroindolenine (VIII); this heated 2 hrs. at 110° with Me₂SO, and the product treated with KI yields 23% VIII.MeI, m. 214°. The following dyes were prepd. by heating the corresponding quaternary salt and orthoformate in Ac₂O or in Ac₂O-C₆H₅N (starting indolenine, mol. formula, % yield, m.p., and absorption max. in mμ given): VI, C₁₁H₁₁IN₂O₄, 63, 201-2°, 343; VIIa.MeClO₄, C₁₁H₁₁ClN₂O₄, 87, 203°, 355; VIIa.EtClO₄, C₁₂H₁₃ClN₂O₄, —, 230° (decompn.), 560; N⁴-Ac deriv. of VIIa.EtClO₄, C₁₃H₁₅ClN₂O₄, —, 215°, 353; 4-AcNH analog of VIII.MeClO₄, C₁₁H₁₁Cl₂N₂O₄, —, 238°, 653; VII.MeI, (the product analyses for the triiodide salt) C₁₁H₁₁Cl₃N₂O₄, —, 213° (decompn.), 343; 4-H₂N analog of VIII.MeClO₄, C₁₁H₁₁Cl₂N₃O₄, —, 236°, 549; 1,3,3,3-tetramethyl-7-dimethylaminoindoleninium perchlorate, C₁₁H₁₇ClN₂O₄, —, 550; VII, C₁₁H₁₁ClN₂O₄, —, 238° (decompn.), 550; 1,2,3,3-tetramethyl-4-methylamino-7-chloroindoleninium perchlorate

OVER

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 $C_{11}H_{11}ClN_2O_2$, m.p. 120°, 553. II. Synthesis of 6-acetamino- and 6-dimethylamino-2,3,3-trimethylindolenines. *Ibid.* 652-6. Condensation of *m*-H₂NC₆H₄NMe₂ (I) and *m*-H₂NC₆H₄NHAc (II) with MeCOBrMe₂ (III) yields C-6 substituted indolenines. The cyclization takes place para to the substituent. 6-Dimethylamino-2,3,3-trimethylindolenine (IV), heated with MeI, tends to form diquaternary salts which yield the corresponding carbocyanines as easily as the mono salts. Heating at 155° 4.5 g. II and 4.9 g. III, and 6 ml. C₆H₅N (V) 0.5 hrs. at 155° and worked up yields the 3-AcNH analog (VI) of IV, b.p. 184-88°, a yellow oil, solidifying on standing. Heating 5.5 g. I, 6.4 g. III, and 7 ml. V 15 min. at 120° and working up yields IV, b.p. 165-65°, 0.4 g. IV and 0.30 g. MeI heated 5 hrs. in a sealed tube at 110-20 yields IV.2MeI, m. 203°. Three new carbocyanines were prep'd. from the following compds. and orthoformate in Ac₂O or Ac₂O-V (m.p. and λ_{max} in m μ for the dye given): VI.MeClO₄, 236°, 552; IV.MeClO₄, 199-200°, 563; IV.2Me-

E.D. SYLH
 ClO₄, 335°, 540. III. Effect of substituents in benzene rings of symmetric indocarbocyanines on their absorption spectra. *Ibid.* 657-61. — Condensation of *p*-H₂NC₆H₄NHAc (I) or *p*-H₂NC₆H₄NMe₂ (II) with MeCOCHBrMe₂ (III) yields C-5 substituted indolenines; while *p*-nitroaniline cannot be condensed. The shifts in λ_{max} caused by substitution of an Me₂N group on the benzene ring of indocarbocyanines are as follows (positions of attachment and $\Delta\lambda$ in m μ): 5, 5', +60; 6, 6', +23; 4, 4' or 7, 7' +5. The Et₂N groups in the 5,5'-positions are true auxochromes; alkylated, it deepens the color of the dye; acylated, it heightens it; its effect on the color is reduced to zero by salt formation. Boiling 9 g. II, 11 g. III, and 10 ml. C₆H₅N 0.5 hr. yields 35% 5-diethylamino-2,3,3-trimethylindolenine (IV), b_p 150-3. Heating 1.7 g. IV, with 1.3 g. MeI 2 hrs. in a sealed tube on a steam bath yields IV.2MeI, m. 322°. Indocarbocyanines were prepd. from the following compds. (m.p. and λ_{max} in m μ of the dye given): IV.MeClO₄, 295°, 695-608; 5-acetamido-2,3,3-trimethylindolenine-EtClO₄, 285°, 578.
 Elisabeth Barabash.

S/S

SYCH, Ye.D.

Synthesis of certain derivatives of indolenine and indo-
carbocyanines. Part 2. Synthesis of 6-acetamino- and
6-cimethylamino-2,3,3-trimethylindolenines. Ukr.khim.
zhur. 19 no.6:652-656 '53. (MIRA 8:5)

1. Institut organicheskoy khimii Akademii nauk USSR.
(Pseudoindole)

SYCH, Ye.D.

Synthesis of certain derivatives of indolenine and indocarbocyanines. Part 3. Effect of substitutes in the benzene rings of symmetric indocarbocyanines on their absorption spectra. Ukr.khim.zhur. 19 no.6:657-661 '53. (MIRA 8:5)

1. Institut organicheskoy khimii Akademii nauk USSR
(Carbocyanine) (Absorption spectra)

SYCH, Ye.D.

Thiazolocarboyanines with aryl radicals in the thiazole rings.
Part 1. 4,4'-diarylthiazolocarboyanines. Ukr. khim.zhur. 22 no.1:
80-83 '56. (MIRA 9:6)

1. Institut organicheskoy khimii AN USSR.
(Thiazolocarboyanines)

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SYCH, Ye.D.; BABICHEV, F.S.

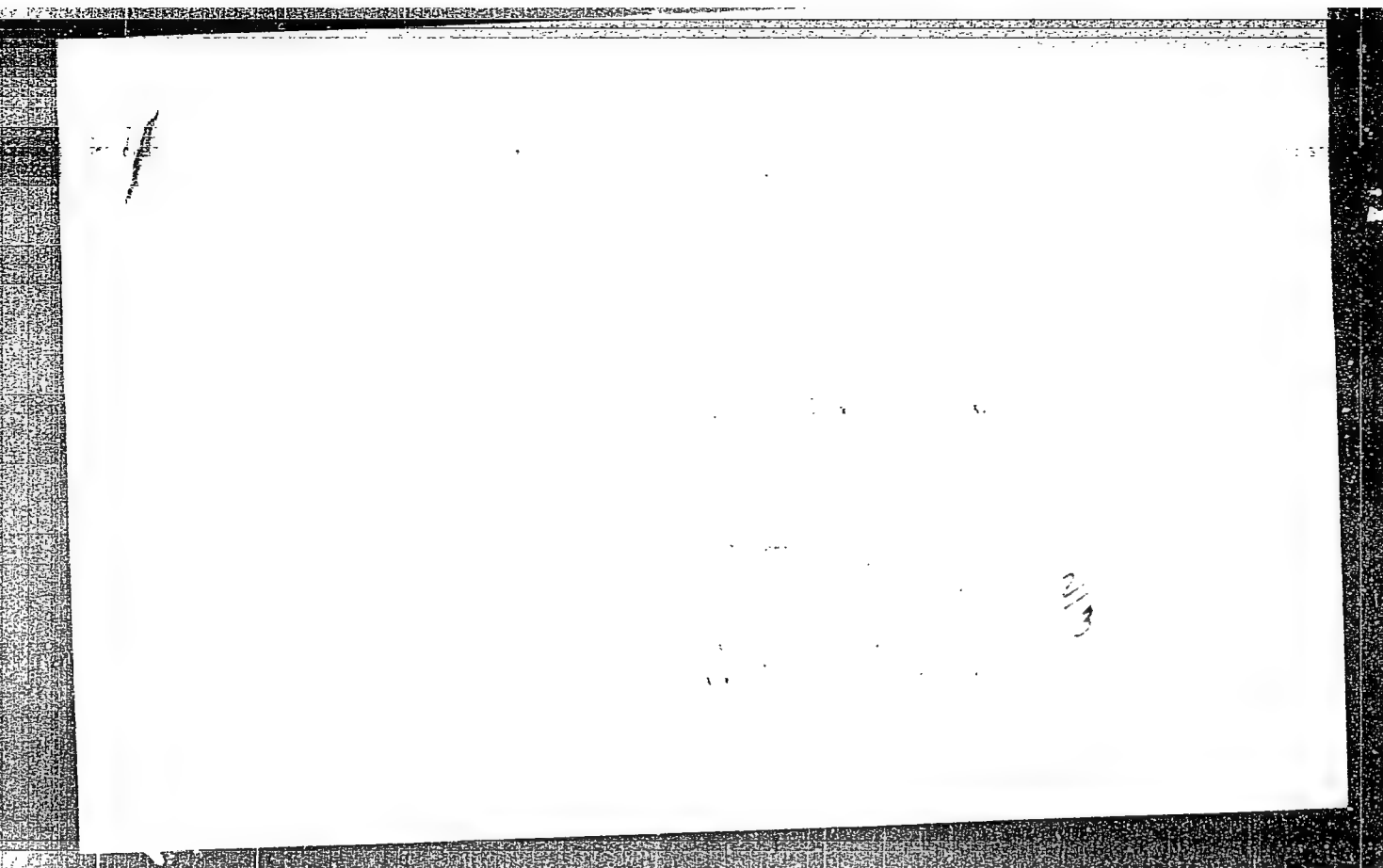
Andrei Ivanovich Kiprianov; on the occasion of his 60th birthday.
Ukr.khim.zhur. 22 no.4:550-553 '56. (MIRA 10:10)
(Kiprianov, Andrei Ivanovich, 1896-)

of C.I. 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878

over are obtained usually in better yields than those of LX

"APPROVED FOR RELEASE: 07/13/2001

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APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654220011-9"

1. 1,3,4,5-tetrahydro-2-methyl-2H-1,2,4-triazole-5-thione
2. 1,3,4,5-tetrahydro-2-methyl-2H-1,2,4-triazole-5-thione

SYCH, Ye.D.

Thiazolocarboyanines with aryl radicals in thiazol nuclei. Part 3:
Metoxyarylthiazolocyanines. Ukr. khim. zhur. 24 no.1:79-88 '58.
(MIRA 11:4)

1. Institut organicheskoy khimii AN USSR.
(Thiazole--Spectra) (Dyes)

SYCH, Ye.D.

Thiazolocarboyanines with aryl radicals in thiazol nuclei.
Part 4: Space hindrance in 5-(α -naphthyl)-thiazols. Ukr. khim.
zhur. 24 no.1:89-92 '58. (MIRA 11:4)

1. Institut organicheskoy khimii AN USSR.
(Thiazole--Spectra) (Stereochemistry)

SYCH, Ye.D.

Thiazolocarboyanines with aryl radicals in thiazol nuclei.

Part 5: Biscyanines and bistyrills of the thiazol series.

Ukr. khim. zhur. 24 no.1:93-98 '58.

(MIRA 11:4)

1. Institut organicheskoy khimii AN USSR.

(Biphenyl) (Dyes and dyeing)

STCH, Ye.D.; TOCHACHEV, A.I.

Synthesis of 2-methyl-4-nitrobenzothiazole. Ukr. khim. zhur.
27 no. 1:86-82 '61. (11A 14:2)

1. Institut organicheskoy khimii AN U.S.S.R.
(Benzothiazole)

SYCH, Ye.D.

Thiazolocarboanilines with aryl radicals in the thiazole
nuclei. Part 8: Unsymmetrical thiazolocarboanilines. Ukr.
Khim. zhur. 27 no. 1:63-67 '61. (UKR 14:2)

1. Institut organicheskoy Khimii N. S. USSR.
(Thiazolocarboaniline)

SYCH, Ye.D.; KIPRIANOV, A.I.

Steric hindrances in 4,4'-diarylthiazolocyanine molecules. Zhur.
ob.khim. 31 no.12:3926-3929 D '61. (MIRA 15:2)

1. Institut organicheskoy khimii AN Ukrainskoy SSR.
(Thiazolocarbo-cyanine--Spectra)
(Steric hindrance)

SYCH, Ye.D.; SHULEZHKO, A.A.; KIPRIANOV, A.I.

Cyanine dyes from 2-methylacenaphtheno-(1, 2-d)-thiazole. Ukr.
khim.zhur. 28 no.2:213-218 '62. (MIRA 15:3)

1. Institut organicheskoy khimii AN USSR.
(Cyanines)

SYCH, Ye. D.; BELAYA, Zh. N.

Isomeric nitro-2-methylbenzothiazoles and cyanine dyes derived
from the. Ukr. khim. zhur. 28 no.3:362-367 '62.
(MIRA 15:10)

1. Institut organicheskoy khimii AN UkrSSR.

(Benzothiazole) (Cyanines)

SYCH, Ye. D.; UMANSKAYA, L. P.

Cyanine dyes from 6,7-dihydro-4,5-benzobenzthiazole and 4,5-dihydro-6,7-benzobenzthiazole. Ukr. khim. zhur. 28 no.6:714-718 '62. (MIRA 15:10)

1. Institut organicheskoy khimii AN UkrSSR.

(Benzothiazole) (Cyanine dyes)

S/073/62/028/009/006/011
A057/A126

Thiazole cyanines. XI. Synthesis of...

sized by boiling equimolecular quantities of the corresponding ethyl-p-toluol-sulphonates of 4-aryl- or 5-arylthiazole, iodine ethylate of 2-methylmercaptobenzthiazole and triethylamine in absolute alcohol. Trimethine cyanines were prepared in two ways: 1) Equal amounts of the ethyl-p-toluolsulphonate of the thiazole derivative and the corresponding orthoester were boiled in pyridine after adding acetic anhydride, or 2) (suggestion by N. N. Sveshnikov, and N. S. Stokovskaya) equimolecular amounts of ethyl-p-toluolsulphonate of the corresponding aryl-2-methylthiazole, ethoxymethylene malonic ester and triethylamine were heated in absolute alcohol. Merocyanines with the substitute in position 4 were obtained by heating equimolecular amounts of the quaternary salts of the corresponding 2-anilinevinyl-derivatives of thiazole with 3-ethylrhodanine in absolute alcohol and triethylamine, while the 5-substituted compound was prepared by heating the quaternary salts of the corresponding derivatives of 2-methylthiazole with 5-aniline-methine-3-ethylrhodanine in pyridine. The rhodacyanines were synthesized by heating 0.001 mole of a merocyanine with 0.002 mole dimethylsulfate, the excess of the latter removed and the purified residue mixed with 2 ml pyridine and 0.001 mole of the quaternary salt of the thiazole derivative and boiled for 1 hour. The characteristic data of all synthesized

Card 2/3

Thiazole cyanines. XI. Synthesis of...

S/073/62/028/009/006/011
A057/A126

dyestuffs are presented in tables.. There are 6 tables.

ASSOCIATION: Institut organicheskoy khimii AN USSR (Institute of Organic
Chemistry, AS UkrSSR)

SUBMITTED: December 10, 1961

Card 3/3

SYCH, Ye.D.; SMAZNAYA-IL'INA, Ye.D.

Thiazolocymanines. Part 9: Synthesis of thiazolocymanines from
thiazole derivatives with heterocyclic residues as substituents.
Zhur.ob.khim. 32 no.3:984-990 Mr '62. (MIRA 15:3)

1. Institut organicheskoy khimii AN USSR.
(Thiazolocarboxyanine) (Thiazole)

SYCH, Ye.D.; SMAZNAYA-IL'INA, Ye.D.

Thiazolocyanines. Part 11: Synthesis of thiazolocyanines
from derivatives of thiazole with heterocyclic residues
as substitutes. Ukr.khim.zhur. 28 no.9:1087-1095 '62.
(MIRA 15:12)

1. Institut organicheskoy khimii AN UkrSSR.
(Cyanine dyes)
(Thiazole)

S/079/63/033/001/005/023
D205/D307

AUTHORS: Sych, Ye. D. and Smaznaya-Il'ina, Ye. D.

TITLE: Thiazolecyanines. X. Cyanine dyes from 2-methyl-4-styryl- and 2-methyl-5-styryl thiazoles

PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 1, 1963, 74-79

TEXT: Iodomethyl styryl ketone (I) prepared by treating 4-phenyl-1,3,4-tribromobutanone-2 in acetone with NaI, was reacted with thioacetamide to give 2-methyl-4-styrylthiazole (A), with a m.p. of 61°C. The vigorous initial reaction of I and thioacetamide was controlled by cooling, and the mixture was then heated for 15 min to 100°C; conc. HCl and benzene were then added and the hydrochloride of A was filtered off, washed and recrystallized. A was then liberated with ammonia. 2-methyl-5-styrylthiazole (B) melting at 124°C, was synthesized by reacting at 130°C, P₂S₅ with ω-acetaminomethyl styryl ketone (obtained by forming the urotropin complex of I, boiling it with MeOH/HCl, and acetylating the aminomethyl styryl

Card 1/2

Thiazolecyanines. X. ...

S/079/63/033/001/005/023
D205/D307

ketone salt produced with acetic anhydride in aqueous solution). The quaternary salts of A and B were then used to give a series of cyanine dyes: mono- and trimethyne cyanines, styryls and merocyanines. Spectroscopic investigations of these dyes in alcoholic solutions showed that the styryl group in position 5 was more strongly conjugated with the polymethyne chromophore than was the styryl group in position 4. There is 1 table.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk Ukrainsskoy SSR (Institute of Organic Chemistry of the Academy of Sciences of the Ukrainian SSR)

SUBMITTED: December 8, 1961

Card 2/2

SYCH, Ye. D.; UMANSKAYA, L. P.

Nitrogen and sulfur atoms as conductors of conjugation in the molecules of isomeric 2-styryl-4-arylthiazole and 2-styryl-5-arylthiazole with polar substituents. Zhur. ob. khim. 33 no.1: 80-83 '63. (MIRA 16:1)

1. Institut organicheskoy khimii AN Ukrainskoy SSR.

(Thiazole) (Conjugation(Chemistry))
(Substitution(Chemistry))

SYCH, Ye.D.; BELAYA, Zh.N.

Synthesis of some oxazole derivatives. 2-mercapto- and 2-methylmercapto-4-aryl oxazoles. Zhur. ob. khim. 33 no.5: 1507-1512 My '63. (MIRA 16:6)

1. Institut organicheskoy khimii AN UkrSSR.
(Oxazole)

... ..;;

... .., Part II: Symmetrical with
... .. in rings. no. 16:
1945-1949 (1945 17:11)

... .. Institut

SYCH, Ye.D.; UMANSKAYA, L. P.

Thiazolocyanines. Part 12: Polar substituents in thiazole rings
of thiazolocyanines. Zhur. ob. Khim. 34 no.6:2068-2074 Je '64.
(MIRA 17:7)

1. Institut organicheskoy khimii AN UkrSSR. "

SYCH, Ye.D.; UMANSKAYA, L.P.

Δ, ∇ -Polymethylenethiazolo - and oxazolocarboxyanines. Ukr.khim.
zhur. 31 no.2:201-206 '65. (MIRA 18:4)

1. Institut organicheskoy khimii AN UkrSSR.

SYCH, Ye.D.; PERKOVSKAYA, Ye.K.

Discyanines from two-quaternary salts of bisazolylikanes.
Zhur. org. khim, 1 no.8:1479-1483 Ag '65. (MIRA 18:11)

1. Institut organicheskoy khimii AN UkrSSR

L 17999-66

EWT(d)/EWT(m)/EWP(f)/T/EWP(t)

IJP(c)

JD/WB/WE

ACC NR:

AP6007936

SOURCE CODE: UR/0318/66/000/001/0007/0009

AUTHOR: Sych, Yu. I.; Makhov, A. F.; Stekhum, A. I.; Rogacheva, O. I.

ORG: none

TITLE: Improvements in the refining technology of fuels for jet engines

SOURCE: Neftepererabotka i neftekhimiya, no. 1, 1966, 7-9

TOPIC TAGS: jet fuel, fuel contamination

ABSTRACT: Improvements have been introduced in the continuous alkaline- and water-wash process for jet fuel refining which involves removal of hydrogen sulfide, organic acids, and some mercaptans. The old process had the disadvantage that alkaline and aqueous emulsions were formed in the respective wash steps and were entrained downstream, causing certain difficulties including fuel contamination with mechanical particles found in technical water. The main improvement consisted in the installation of glass-wool filters after each of the wash steps, which break up the emulsions and remove mechanical contaminants. A flow sheet of the improved process is given in the source. The improvements made it possible to produce high-purity jet fuel which meets GOST 10227-62 specifications and whose mechanical-contaminant content does not exceed 0.0002—0.0003% (determined as per GOST 10577-63). It is noted that removal of contaminants from jet fuels improves thermal stability, decreases corrosivity and filter clogging, and therefore improves aircraft operational reliability. Orig. art. has: 1 figure and 1 table.

Card

1/2

UDC: 665.664.22:621.45-6

[SM]

L 17999-66

ACC NR: AP6007936

SUB CODE: 21/ SUBM DATE: none/ ORIG REF: 004/ ATD PRESS: 4213

Card

m
2/12

L 59471-65 EPA/EWT(m)/EPF(c)/EWP(f)/EPF(n)-2/EPR/T/EPA(bb)-2 Paa-4/
Pr-4/Es-4

TRANSMISSION NO: 12901764

NO. 12.3.0002.2.665.547
NO. 12.3.0002.2.665.547

AUTHOR: Syuyayev, G. I.; Sy. n. 12.3.0002.2.665.547; Syuyayev, G. I.; Syuyayev, N. S.

TITLE: Production of gas turbine fuels from distillates containing sulfur residues

SOURCE: Neftepromyshlennyye i neftekhimicheskiye tekhnologii, No. 7, 1984, pp. 19-22

TOPIC TERMS: petroleum refining; gas turbine fuel

Abstract: The incorporation of coke installations into the scheme of oil refineries permits production of 10 to 15% coke and 40 to 70% heavy gas oil suitable for use as gas turbine fuels, depending on the quality of the feedstock. In 1982, 20 experimental industrial tests were produced at the large setup of Novo-Ufimsk oil refinery; the average values lay within the limits, except for sulfur content, of the technical requirements. The increased content of mechanical impurities was explained by the gas turbine fuels was due to the addition of the sulfur residues to the feedstock. The sulfur residues are concentrated in the form of a finely dispersed state (maximum content 0.01-0.02%). Gas turbine fuels of the requisite qualities could be produced by the addition of suitably prepared cracking residues. A specific technological scheme was

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L 58471-65

ACCESSION NR: AP5017145

developed to provide for the production of acceptable gas turbine fuels. The variation of production of gas turbine fuels from kerosene-gas oil fractions of catalytic cracking may prove the most expedient in the testing of fuels and engines for use as fuels when the kerosene fraction obtained cannot be included in diesel fuel or kerosene without further processing. See also figures and tables.

ASSOCIATION: Novo-Ufimskiy neftepererabatyvayushchiy zavod (Novo-Ufimsk Oil Refinery); Ufimskiy nefteyemnyy institut (Ufa Petroleum Institute)

SUBMITTED: 06

ENTR. NO.

SUB CODE: PP

IN RUSSIAN: 000

REF. NO.

JPRS

TSARAPKIN, S.R.; SYCH, Z.G.

Effect of Pu^{239} , Sr^{90} on the bone marrow in rats. Med.rad. 4
no.6:75-77 Je '59. (MIRA 12:8)

(BONE MARROW, eff. of radiations,
plutonium²³⁹ and strontium 89 & 90 in rats
(Rus))

(STRONTIUM, radioactive
strontium 89 & 90, eff. on bone marrow in
rats (Rus))

(PLUTONIUM, eff.
on bone marrow in rats (Rus))

IL'IN, V. (Frunze); ZAYTSEV, V. (Guynaksk, Dagestanskoy ASSR); YEFREMENKOV, M. (Serpukhov, Moskovskoy obl.); CHUGAYEVSKIY, N., inzh. (Moskovskaya oblast'); BRUKVA, N. (Kiyev); SYCHAYEV, S. (Mytishchi); YEVTEYEV, V. (Rostov-na-Donu)

Exchange of experience. Radio no.4:20,33,36,39,40,53 Ap '65.
(MIRA 18:5)

SYCHENIKOV, I. A., Cand of Med Sci -- (diss) "Initial Circulatory Suture of an Artery in an Infected Wound; Experimental Studies," Moscow, 1959, 19 pp (First Moscow Medical Institute im I. M. Sechenov) (KL, 7-60, 110)

SYCHENNIKOV, I.A.

Primary circular suturing of arteries in infected wounds; experimental study [with summary in English]. Khirurgiia 34 no.6:98-106 Je '58 (MIRA 11:8)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii (zav. - prof. V.V. Kovanov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(WOUNDS & INJURIES, experimental

circular suturing of arteries in exper. infected wds (Rus))

(ARTERIES, surgery

same (Rus))

SYCHENIKOV, I.A.; RABIN, A.G.

Method for releasing tension on a circular arterial suture in
experiment. Eksper. khir. 5 no.4:43-47 Je-Ag '60. (MIRA 13:12)
(ARTERIES—SURGERY) (SUTURES)

SYCHENIKOV, I.A.

Model of an infected wound for the approval of the use of a
circular suture of an artery. Trudy 1-go MMI 16:128-132'62.
(MIRA 16:6)

1. Iz kafedry operativnoy khirurgii i topograficheskoy ana-
tomii (zav. - chlen-korrespondent AMN SSSR prof. V.V.Kovanov)
Pervogo Moskovskogo ordena Lenina meditsinskogo instituta.
(SUTURES) (ARTERIES—SURGERY)

SYCHENIKOV, I.A.

Elimination of tension in a circular arterial suture in case
of an infected experimental wound. Trudy 1-go MMI 16:133-138'62.
(MIRA 16:6)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii
(zav. - chlen-korrespondent AMN SSSR prof. V.V. Kovanov) Per-
vogo Moskovskogo ordena Lenina meditsinskogo instituta.
(SUTURES) (ARTERIES--SURGERY)

ANIKINA, T.I., dots.; BOGUSLAVSKAYA, T.B., ass.; BOMASH, Yu.M., dots.; GEYMAN, D.V., ass.; GRENADEROV, Yu.V., ass.; DOBROVA, N.B., ass.; KLEPIKOV, V.A., ass.; ZUBRILOVA, A.V., ass.; KULIK, V.P., mlad. nauchn. sotr.; NIKOLAYEV, F.D., dots. [deceased]; SYCHENIKOV, I.A., dots.; TRAVIN, A.A., ispoln. obyazannosti prof.; RYBALKIN, P.Ye., ass.; KOVANOV, V.V., prof., red.; PROKOF'YEV, V.P., red.; ZAGOREL'SKIY, Ia.I., tekhn. red.

[Special methodology for practical work in topographic anatomy and operative surgery] Chastnaya metodika prakticheskikh zaniatii po topograficheskoi anatomii i operativnoi khirurgii. Izd.2., perer. i dop. Pod red. V.V.Kovanova. Moskva, 1963. 224 p. (MIRA 16:12)

1. Moscow. Pervyy meditsinskiy institut. 2. Kollektiv pre-podavateley kafedry operativnoy khirurgii i topograficheskoy anatomii 1-go Moskovskogo instituta imeni I.M.Sechenova (for all except Prokof'yev, Zagorel'skiy). 3. Zaveduyushchiy kafedroy operativnoy khirurgii i topograficheskoy anatomii 1-go Moskovskogo instituta imeni I.M.Sechenova, chlena-korrespondent AMN SSSR (for Kovanov).

(ANATOMY, SURGICAL AND TOPOGRAPHICAL)
(SURGERY, OPERATIVE)

1. P. SYCHENKO

2. USSR (600)

4. Barley

7. 27 centners of barley per hectare. Dost sel(khoz. no. 1. 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

TSVETKOV, V.N., kand.tekhn.nauk, dotsent; SYCHENKOVA, O.P., inzh.

Bending strength of the sole construction fastened with the
thread-cement system. Nauch.trudy MTILP no.23:112-149 '61.
(MIRA 15,9)

1. Kafedra tekhnologii izdeliy iz kozhi Moskovskogo
tekhnologicheskogo instituta legkoy promyshlennosti.
(Shoe manufacture)

TSVETKOV, V.N., kand.tekhn.nauk, dotsent; SYCHENKOVA, O.P., inzh.

Stiffness in bending of the footwear manufactured by the inseam
method. Izv.vys.ucheb.zav.; tekhn.prom. no.1:115-125 '63.
(MIFA 16:3)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
(Shoe manufacture)

SYCHEV, A.

37409. Ispol'zovat' Dikorastushchiy Klever ^LDlya Poseva Na Kolkhoznykh Polyakh. (Iz Opyta Kolkhozov Ivanin. Rayona). V Sb: Za Vysokuyu Kul'turu Zemledeliya. Kursk, 1949, s. 23-30.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

CHURBANOV, V.; SYCHEV, A.

Economic growth of socialist Mongolia. Vnesh. torg. 43 no.7:3-5
'63. (MIRA 16:8)

(Mongolia--Economic conditions)

SYCHEV, A. A.: Master Med Sci (diss) -- "The conditions of training work and near-sightedness in students of the city of Khar'kov". Khar'kov, 1958.
15 pp (Khar'kov State Med Inst), 200 copies (KL, No 4, 1959, 132)

Я. М. Хурин

Статистические методы обработки сигналов в статистической радиотехнике.

11 июня
(с 18 до 22 часов)

М. С. Александров

Распределение разности фаз помех и свойства флуктуационного сигнала, шумов и коррелированной шумовой помехи.

В. С. Фадеев

Некоторые теории конструктивной теории информации для дискретного канала с шумом помех.

О. С. Шахов

Определение вероятности потерь сообщения в транс- портовом канале с шумом помех.

Р. Р. Варшавский

Некоторые вопросы теории линейного кодирования.

12 июня
(с 10 до 16 часов)

М. Я. Бабур

Системы передачи дискретных сигналов с фазовой разностью кодирования.

М. М. Успенко

Потенциальный процесс сигнала в КИМ с помехами.

Г. М. Рукава

Г. М. Халмаев

Системы передачи информации

Г. М. Рукава

Г. М. Халмаев

О некоторых флуктуационных характеристиках сигнала в статистической радиотехнике и теории информации.

А. А. Сичов

Некоторые вопросы теории информации в системах с шумом помех.

13 июня
(с 18 до 22 часов)

В. М. Марченко

Групповые передачи дискретных сигналов с шумом помех.

М. Я. Бабур

Вопросы оптимальной помехоустойчивости при декодировании сигналов.

report submitted for the Centennial Meeting of the Scientific Technological Society of
Radio Engineering and Electrical Communications in A. N. Popov (VSEIE), Moscow,
8-12 June. 1959

SYCHEV, A.A., assistant

Activity of the visual analyzer in myopic school children under
constant and interrupted correction. Gig. i san. 24 no.10:32-39
'59. (MIRA 13:1)

1. Iz kafedry gigiyeny detey i podrostkov Khar'kovskogo meditsinskogo
instituta.

(EYEGLASSES)

(MYOPIA in inf. & child)

(STUDENTS)

KOVAL'KOVA, Z.P., kand.med.nauk; SYCHEV, A.A., kand.med.nauk; GORYUNOVA, A.A.,
assistant

Dynamics of the physical development of school children in Kharkov for
20 years. Gig. i san. 26 no.10:31-34 0 '61. (MIRA 15:5)

1. Iz kafedry gigiyeny detey i podrostkov Khar'kovskogo meditsinskogo
instituta.

(KHARKOV—CHILDREN—GROWTH)

Pe-5/Po-4/Pq-4/Pac-4

157

... : dist. relation and local relation : SW-A-3c/25 objectives

.....

artificial earth satellite, camera objective, objective distortion,
astrometry / K&F camera, NAFA-3c/25 camera

[illegible]

Сери:

L 26644-65

ACCESSION NR: AT5002914

[illegible]

... .. (State University)

SYCHEV, A.D., kand.tekhn.nauk

Changes in readings of instruments (manometers) caused by vibrations. Rasch.na prochn. no.4:375-394 '59.
(MIRA 13:4)

(Manometer--Vibration)

SYCHEV, A.D., kand. tekhn. nauk

Investigation of vibrations of elements of instruments
(manometers) taking into consideration natural vibrations.
Izv. vys. ucheb. zav.; mashinostr. no.2:79-90 '63.
(MIRA 16:8)

1. Zaochnyy mashinostroitel'nyy institut.

MANUKOVSKIY, N.F.; POLONETSKIY, S.D.; OREKHOV, N.I.; SYCHEV, A.F.;
BOLDYREV, M.D.; SEMENOV, V.M., nauchnyy red.; KRYUCHKOV,
V.L., red.; CHIRKOV, A.Ya., red.; PERSON, M.N., tekhn. red.

[Over-all mechanization of corn growing and harvesting]Kom-
pleksnaya mekhanizatsiya vozdelvaniya i uborki kukuruzy.
Moskva, Proftekhizdat, 1962. 118 p. (MIRA 16:2)
(Corn (Maize)) (Farm mechanization)

ABDURAKHMANOV, T.R.; SYCHEV, A.G.; TSYBANOVA, V.A.

Electrocardiographic study of the effect of tinctures of certain
plants of the genus *Lagochilus*. Med. zhur. Uzb. no.12:78 D '61.
(MIRA 15:2)

1. Iz kafedry farmakologii (zav. - prof. I.E.Akopov) Kubanskogo
meditsinskogo instituta.
(LAGOCHILUS) (ELECTROCARDIOGRAPHY)

KOLTUN, Sergey Ivanovich; BORINSKIY, Mikhail L'vovich; SYCHEV, A.M., inzh.,
retsenzent; KOVALENKO, A.V., inzh., red.; DUGINA, N.A., tekhn.red.

[Effecting savings of die steel] Ekonomiia shtampovoi stali.
Pod red. A.V.Kovalenko. Moskva, Mashgiz, 1961. 43 p.

(MIRA 15:5)

(Dies (Metalworking)) (Tool steel)

ZLATKIN, Moisey Grigor'yevich; DOROKHOV, Nikolay Nikolayevich; LEBEDEV, Nikolay Ivanovich; MAKAROV, Nikolay Yevgen'yevich; NEYSHTAT, Zya-ma Fal'kovich; SYCHEV, Arkadiy Mikhaylovich; SKLYUYEV, P.V., kand. tekhn. nauk, retsenzent; TASHCHEV, A.K., kand. tekhn. nauk, retsenzent; TRUBIN, V.N., kand. tekhn. nauk, retsenzent; VSHIVKOV, P.P., inzh., retsenzent; KON'KOV, A.S., inzh., retsenzent; LEBEDEV, N.S., inzh., retsenzent; POTEKUSHIN, N.V., inzh., retsenzent; TYAGUNOV, V.A., doktor tekhn. nauk, red.; SOKOLOV, K.N., kand. tekhn. nauk, red.; SKORNYAKOV, V.B., red.; YAROSHENKO, Yu.G., red.; ZAKHAROV, B.P., inzh., red.; AMIROV, I.M., inzh., red.; MYSHKOVSKIY, V.A., inzh., red.; SHELEKHOV, V.A., inzh., red.; BOGOMOLOV, O.P., inzh., red.; KATS, I.S., inzh., red.; LEVANOV, A.N., inzh., red.; DUGINA, N.A., tekhn. red.

[Handbook on forging practices] Spravochnik rabocheho kuznechno-shtampovohnogo proizvodstva. By M.G.Zlatkin i dr. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 776 p.

(MIRA 14:9)

(Forging—Handbooks, manuals, etc.)

Sychev, A.P.

137-58-5-9315

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 75 (USSR)

AUTHOR: Sychev, A. P.

TITLE: Some Problems of Reduction Electrosmelting of Lead (Nekotoryye voprosy svintsovoy vosstanovitel'noy elektroplavki)

PERIODICAL: Sb. tr. Vses. n. -i. in-ta tsvetn. met., 1956, Nr 1, pp 38-47

ABSTRACT: Large-scale experiments on electrosmelting of Pb-sinters were carried out in an experimental single-phase furnace with an area of 1.2 m² and a transformer capable of supplying potentials in steps of 76-64 v and 57 v. The experiments were conducted at an electrode potential of 57 v. The following conditions of electrosmelting were found to be optimal with regard to the extraction of Pb as a raw metal: S content in the sinter 3-3.5%; coke consumption, 6-7% relative to the sinter; depth of hearth 600-700 mm; energy consumption per 1 ton of sinter 600-700 kwh; output of the furnace 5-6 t/m³. The direct extraction of Pb as a raw metal amounted to an average of 88.6% when smelting standard Pb sinter. 40% of the Cu passes into Pb, while 50% of it enters the matte. The greater portion of Zn passes into

Card 1/2

137-58-5-9315

Some Problems of Reduction Electrosmelting of Lead

slag, while 30-35% of it undergoes sublimation. The effect of S and of the reductant on the production indices of the process was investigated; experiments were conducted on the electrosmelting of flux-free Pb-sinter containing approximately 50% Pb and 15% Zn.

N. P.

1. Electric furnaces--Operation
2. Lead--Production
3. Lead ores--Processing
4. Slags--Properties

Card 2/2

137-58-4-6816

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4. p 72 (USSR)

AUTHORS: Sychev, A.P., Nikiforov, B.K.

TITLE: Experience in the Treatment of Copper Dross in an Electric Furnace (Opyt pererabotki mednykh shlikerov v elektropechi)

PERIODICAL: Sb. tr. Vses. n.-i. in-ta tsvetn. met., 1956, Nr 1, pp 69-78

ABSTRACT: Electric smelting of Cu drosses yields commercial matte, low-copper crude Pb, and speiss in which there is a concentration of As. Furnace treatment of drosses is at low electrode voltages. The best results are obtained with a charge consisting of 20% Pb concentrate, 30% pyrite cinders, and 6% coke breeze. The Pb yield in the crude metal was 81%, the Cu in the matte came to 81%, the Pb in the speiss 14%, the Cu in the crude Pb 2%, and the As in the speiss 27%.

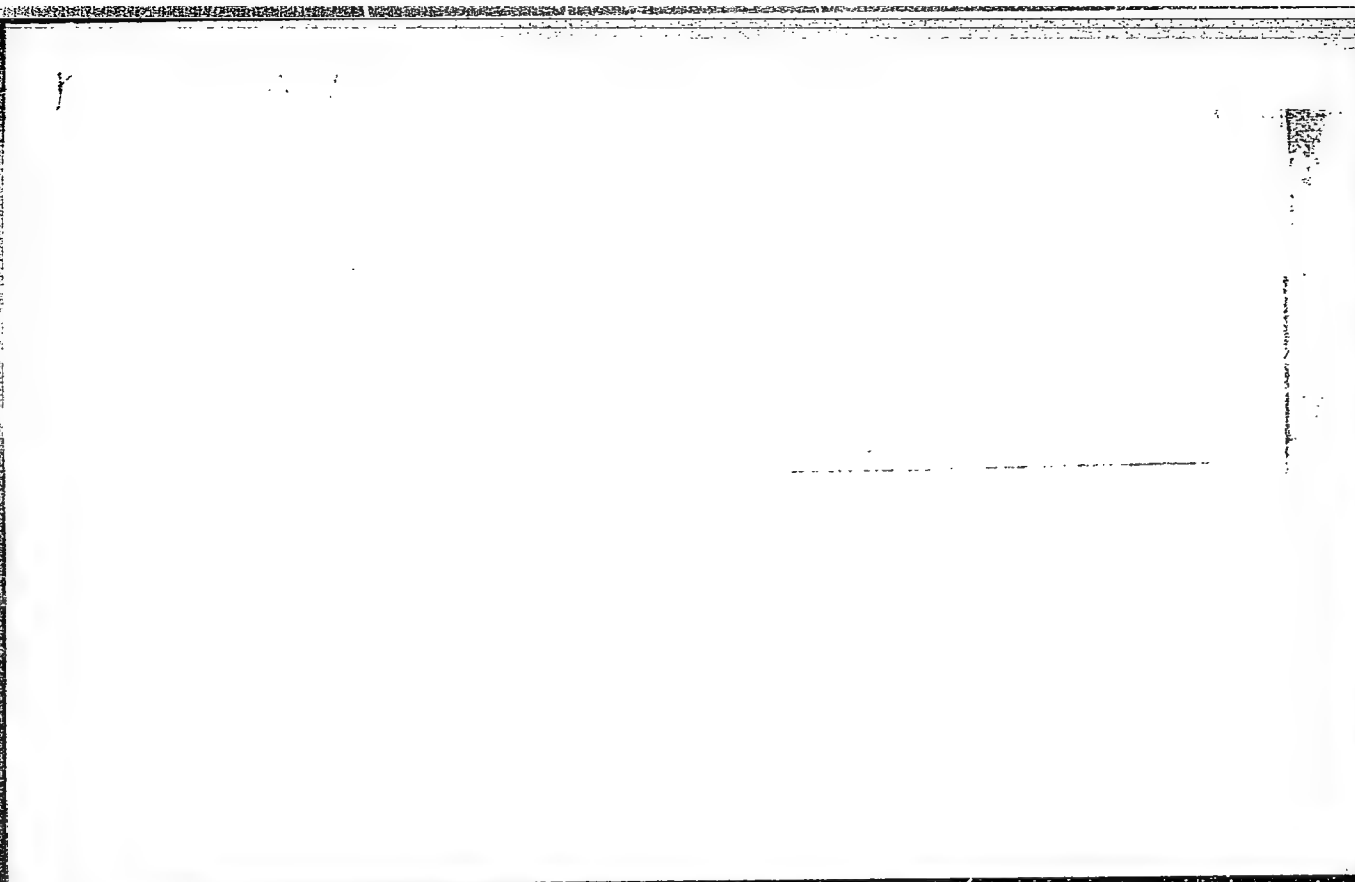
1. Metallurgy--USSR 2. Copper waste--Control systems

G.S.

Card 1/1

"APPROVED FOR RELEASE: 07/13/2001

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APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654220011-9"

Sychev, A.P.

137-1958-2-2628

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 60 (USSR)

AUTHORS: Sychev, A.P., Manchenko, L.V.

TITLE: Electrosmelting a Lead Sinter (Elektroplavka svintsovogo aglomerata)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 14, pp 18-23

ABSTRACT: Worked out and tested on a quasi-industrial scale was a method of reducing a Pb sinter by electrosmelting. The tests were conducted with a 3-phase 2400-kva electric furnace. The rated current from the 2 transformers was 20,800 amp. The furnace, rectangular in shape, had a hearth-bottom area of 19.6 m^2 (7×2.8). In the electrosmelting of lead it was found necessary to use lower voltage levels at the electrodes than are used in electric furnaces in which Cu and Ni are smelted. It was possible to smelt a fluxed sinter with an ~ 50 percent Pb content and ~ 12 percent Zn content, based on concentrates of the Leninogorsk lead works. The S content of the sinter should be higher than when the smelting is done in a shaft furnace (3-4 percent as opposed to 1.5 - 2 percent). Optimum smelting conditions were: coke-fines consumption 6-7 percent; S content of sinter

Card 1/2

137-1958-2-2628

Electrosmelting a Lead Sinter

3-4 percent; temperature of the process $\sim 1200^{\circ}$. The effective depth of the bath was 1000-1200 mm. Electric power consumption was 600-650 kw - hr per ton of sinter. 992.15 tons of sinter were smelted. The average daily amount smelted for the 19 days during which the furnace was in operation was 52.2 tons, or 3.26 tons per square meter. The largest amount smelted was 67.0 t/day. The total quantity of dust was 86.822 tons, or 8.81 percent. The passing of Cu into the crude Pb (23.27 percent) and into the slag (15.8 percent) was attributed to the insufficient S content of the sinter (2 percent instead of 3-4 percent). The passing of Cu into the matte was found to be 38.65 percent. 84.25 percent of the Pb passed directly into the crude metal. 1.42 percent of the Pb had passed into the slag. The Zn became concentrated in the slags and dusts. The Zn content in the slag was 41.98 percent, in the matte 5.27 percent, in the skimmings 2.09 percent, in the dust 51.26 percent.

G.S.

1. Lead—Smelting—Processes

Card 2/2

SYCHEV, A. P.

SOV/136-58-9-16/21

AUTHOR:

Ya. Sh.

TITLE:

Conference on New Methods of Making Lead (Soveshchaniye po novym metodam polucheniya svintsa)

PERIODICAL:

Tsvetnyye Metally, 1958, Nr 9, pp 72 - 75 (USSR)

ABSTRACT:

A conference on new methods of lead production from concentrates was held at the Gintsvetmet on June 22-25, 1958. Since the last meeting in 1953, over 20 flowsheets and variants have been tested by various works and organisations and the purpose of the present meeting was to evaluate this work. Pre-prints of the following reports had been circulated: "On Electric Smelting of Lead Raw Materials" by A.P. Sychev, V.A. Mikhayev, D.A. Sushchinskiy of vNIItsvetmet, A.V. Yukov of Kavkazgiprotsvetmet; "On Precipitation and Reaction Smelting of Lead Concentrates" by V.P. Lidov, L.A. Blinova, M.P. Smirnov, L.N. Kudryashova of Gintsvetmet, I.R. Polyvyanyy et al. of the Institut metallurgii i obogashcheniya AN KazSSR (Institute of Metallurgy and Beneficiation of the Ac.Sc. KazSSR); "On Hydrometallurgical Treatment" by A.N. Vol'skiy, R.A. Aracheva, A.M. Yegorov, P.S. Titov, F.M. Loskutov and V.S. Lovchikov of Mintsvetmetzoloto and A.V. Pomosov, A.I. Levin et al. of the Ural'skiy

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Conference on new Methods of Making Lead

SOV/136-58-9-16/21

politekhnicheskiiy institut (Urals Polytechnic Institute); on the "Electrolytic Production of Lead by Electrolytes of Fused Salts" by I.G. Gul'din, A.V. Bushinskaya, v.P. Barinova and v.K. Ruppul' of Gintsvetmet and Yu.K. Delimarskiy, I.D. Panchenko, Ye.B. Gitman and A.A. Kolotiy of IONKh Ac.Sc. Ukrainian SSR. The conference was opened by D.M. Yukhtanov, deputy director of Gintsvetmet, who discussed recent progress and noted that predictions that the lead industry would develop in the direction of the hydrometallurgical treatment of flotation concentrates had not been fulfilled; he said that the most highly developed of the new methods were electric smelting and electrolysis of fused material and that pyrometallurgy would retain its importance for a long time. In the discussion that followed, D.M. Chizhikov, corresponding member of the Ac.Sc. USSR, systematized and reviewed all known processes. P.A. Pozdnikov and A.A. Vlasova of UFAN described methods of treatment developed there; the high effectiveness of which was doubted by v.A. Karchevskiy of Giprotsvetmet and S.I. Sobol' of Gintsvetmet.

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Conference on new Methods of Making Lead

SOV/136-58-9-16/21

A.M. Zykov of the Leningrad Polytechnic Institute criticised the reports presented as being insufficiently analytical. G.P. Vyatlev of the Ukrtssink Works recommended the adoption of electric instead of shaft smelting of secondary lead materials at the works. A.N. vol'skiy, Corresponding Member of the Ac.Sc. of the Mintsvetmetzoloto described work he had directed there on sulphide oxidation and recommended more attention to safety aspects. V.F. Fedorov of the GNTK USSR drew attention to the comparative lack of work in the Soviet lead industry on new methods, but opposed the proposal by Gintsvetmet to build a new, large electric furnace at the Leninogorsk Works. P.I. Kravchenko of the Elektrotsink Works deplored the incompleteness of all the work reported at the conference. A.M. Lomov of Kavkazgiprotsvetmet considered the adoption of electric smelting of lead concentrates and I.D. Panchenko of IONKh of the Ac.Sc. Ukrainian SSR with electrolysis of fused salts. F.M. Loskutov, Professor, Doctor of Technical Sciences of Mintsvetmetzoloto reminded the conference that electric smelting is not applicable to all materials and disagreed with Kostin's suggestion that all Soviet works should be converted to

Card 3/5

Conference on New Methods of Making Lead

SOV/136-58-9-16/21

this practice; he also spoke against alkali treatment of lead-containing materials - a view opposed by G.G. Zapevalov of the Irkutskiy gorno-metallurgicheskiy institut (Irkutsk Mining-metallurgical Institute) who also stressed the need for economic evaluation. M.A. Chernyak of Giprotsvetmet doubted whether electric smelting could revolutionise the lead industry and urged more research on the alkali process and sintering. I.V. Paramonov of the Gosplan of the KazSSR criticised the research work reported but D.N. Klushin of Gintsvetmet said that this work had gone a long way to realise the aims set out at the previous conference though much effort had been wasted. Many speakers deplored the lack of central direction of research work. After putting on record their views on the proposed methods, the conference decided that effort should be concentrated on the study and development of

- a) electric smelting of primary lead raw materials without added fluxes and electric smelting of secondary materials;
- b) electrolysis of lead concentrates in fused electrolytes (for the rich materials of the "Elektrotsink" and Sikhali Works);
- c) electrolytic refining of lead in aqueous

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Conference on New Methods of Making Lead

SOV/136-58-9-16/21

solutions and ancillary operations (at the Chiskent Works); methods of regenerating alkali and soda; hydro-metallurgical and combined schemes for treating the middlings from the concentration of polymetallic ores. The conference recommended that work on acid leaching should cease and that research work should be co-ordinated. About 100 representatives attended the conference.

Card 5/5

1. Lead--Production equipment
2. Lead ores--Processing
3. Industrial

SOV/136-58-12-7/22

AUTHORS: Sychev, A.P. and Platonov, G.F.

TITLE: Special Features of Lead Smelting in Electric Furnaces
(Osobennosti vyplavki svintsa v elektropetchakh)

PERIODICAL: Tsvetnyye Metally, 1958², Nr 12, pp 28 - 30 (USSR)

ABSTRACT: Investigations and the tests on the 2400 kVA electric furnace at the Leninogorskiy svintsovyi zavod (Leninogorsk Lead Works) have confirmed the known advantages (Ref 1) of electric-furnace lead smelting; with power at 10 kop-eyek/kWh this method is also considerably better economically than shaft smelting. To supply information useful in replacing shaft by electric smelting (designs for which are now being worked out for a lead works) the author discusses the peculiarities of electric smelting and deduces the requirements for its successful use with deep slag layers. Slag (25-35% SiO₂, 8-20% CaO, 25-35% FeO, 8-15% ZnO, 5-8% Al₂O₃) temperature on tapping should be 1 200 - 1 250 °C (1 000 - 1 100 at the walls, 1 300 - 1 350 °C near the electrodes); the lead matte bath should be 700-800 and 1 100 - 1 500 °C, at the bottom and the slag boundary, respectively, the slag should be covered with a layer of solid charge at less than 700-800 °C.

Card1/2

SOV/136-58-12-7/22

Special Features of Lead Smelting in Electric Furnaces

Thorough hermetisation of the electric furnace is important both from health and efficiency aspects. High-density chrome-magnesite brick can be used for lining with basic (up to 30-35% SiO_2) slags and semi-acid fireclay for more acid slags; firebrick roofs are always satisfactory. Melt depth should be 1 200 - 1 800 mm (of which 1 000 - 1 500 mm is slag) and the surface should be covered with a 300 - 400 mm depth of solid charge. The rating of the furnace should be 80-120 kVA/m² and electrode loading should be 3-5 A/cm². The transformers should have enough range for the optimal voltage for slags of different conductivities to be obtained. There are 6 Soviet references.

Card 2/2

LAKERNIK, M.M.; LIDOV, V.P.; ZDANOVICH, P.A.; SYCHEV, A.P.

Processing slags by the electrothermal method. *TSvet. met.* 36
no.7:19-24 J1 '63. (MIRA 16:8)
(Nonferrous metals--Electrometallurgy) (Slag)

USSR/Chemistry, Colloid - Proteins Jul/Aug 52

"The Connection Between the Constitution of Organic Compounds and Their Coagulating Effect on Solutions of Egg Albumin," A. P. Sychev, S. S. Vasil'yev, Chair of Phys and Colloid Chem, Moscow Petroleum Inst imeni Acad I. M. Gubkin

"Kolloid Zhur" Vol XIV, No 4, pp 260-266

Detd the coagulating effect of monocabrins, polyhydric alcs, phenols, aromatic alcs, alicyclic alcs, aliphatic ketones, alicyclic ketones, aldehydes (including formaldehyde) and aldehyde alcs on solns of dialyzed egg albumin. Found that addn of one

225T13

CH₂, CH₃, or CH group in any series increases the coagulating effect by a factor of 2-2.5; that the relative position of substituents in mono- and polyphenols influences the coagulating effect in a definite manner; etc. Believe that discovery of relationships of this type between the constitution of org compds and their effect on proteins will clarify problems connected with the biol action of org compds.

225T13

SYCHEV, A. P.

AUTHORS: Nikolayev, L. A., Sychev, A. P. SOV/156-58-1-22/46

TITLE: The Peculiarities of the Catalytic Effect of Complex Compounds
(Osobennosti kataliticheskogo deystviya kompleksnykh soyedineniy)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya
tekhnologiya, 1958, Nr 1, pp. 89 - 93 (USSR)

ABSTRACT: The natural complex compounds fulfill many catalytic functions important for the life of the cell. The authors succeeded in their laboratory in detecting a great number of complex compounds of copper, iron, cobalt, silver, and others which are active with respect to various redox processes. Above all the copper compounds with various amines turned out to be active. The authors succeeded in increasing the activity of copper in the cleavage reaction of hydrogen superoxide by a factor of 10^6 even by binding copper to ammonia. In the present report the results of the same reaction are given in the presence of complex compounds of copper with pyridine, ethanol amines, propanol amine, methylamine, and propylene-diamine. These complexes have a different activity, therefore its investigation permits to explain the causes of the activation during the

Card 1/3

The Peculiarities of the Catalytic Effect of Complex
Compounds

SOV, 156-58-1-22/46

complex formation. The authors had to explain whether a high activity is connected with a low activation energy, and to what an extent this applies in the case of true ferments or if the complex formation influences the pre-exponential multiplier in the case of an equalization of the velocity. The working method is described. Copper acetate or -sulfate was mixed with a corresponding amine. The activation energy was measured in an ultra-thermostat. On the strength of the obtained results (Tables 1,2, Figs 1,2) the authors drew the following conclusions: 1) The activation energy of the decomposition of hydrogen superoxide which is catalyzed by the complex compounds of copper is practically independent of the chemical nature of the addendum (amine) and approaches the activation energy of the thermal dissociation of the peroxide. 2) The authors present considerations favoring an assumption that highly unstable intermediate products play a decisive rôle in the catalysis caused by these complexes. There are 2 figures, 2 tables, and 7 references, 5 of which are Soviet.

Card 2/3

The Peculiarities of the Catalytic Effect of Complex
Compounds

SOV/156.58-1-22/46

ASSOCIATION: Kafedra khimii Moskovskogo instituta inzhenerov transporta
im. I.V. Stalina (Chair of Chemistry of the Moscow Institute
of RR Engineers imeni I.V. Stalin)

SUBMITTED: October 5, 1957

Card 3/3

SYCHEV, Aleksey Petrovich, kand. khim. nauk; NEKHLUDOVA, A.S., red. izd-
va; NAZAROVA, A.S., tekhn. red.

[Water and solutions] Voda i rastvory. Moskva, Izd-vo "Znanie,"
1961. 36 p. (Narodnyi universitet kul'tury. Estestvennonauchnyi
fakul'tet, no.6) (MIRA 14:9)
(Water) (Solution (Chemistry))

TKACHENKO, R.F., master po remontu PMS-36 (stantsiya Bredy, Yuzhno-Ural'skoy dorogi).; KHOROSHEV, V.A., starshiy mekhanik puteukladchika PMS-26 (stantsiya Tuapse, Severo-Kavkazskoy dorogi).; VISICH, A.D., master po ekspluatatsii mashin (raz'yazd Kutan, Severo-Kavkazskoy dorogi).; NECHAYEV, B.N., master po ekspluatatsii mashin (stantsiya Karaul-Kuyu, Ashkhabadskoy dorogi).; SYCHEV, A.P., mekhanik puteukladochnogo krana (stantsiya Dzegam, Azerbaydzhanskoy dorogi).; SEREBROV, Yu.T., mekhanik puteukladochnogo krana (stantsiya Dzegam, Azerbaydzhanskoy dorogi).; SHMELEV, V.V.; master po remontu (stantsiya Girey, Severo-Kavkazskoy dorogi).; MIROMENKO, V.I., mekhanik-puteukladchik (stantsiya Girey, Severo-Kavkazskoy dorogi).

According to the operators of railroad machinery, the equipment could be utilized in a better way. Put' i put.khoz.5m.2:30-33 F '61.

(MIRA 14:3)

(Railroads--Equipment and supplies)

SHISHOV, Ye.L., kand.tekhn.nauk; SYCHEV, A.S., inzh.; KILIMOV, S.L., inzh.;
SHPARBER, P.A., inzh.

"Handbook on special methods of shaft sinking." Reviewed by E.L.
Shishov and others. Shakht. stroi. 6 no.5:32-3 of cover M- '62

(MIRA 15:7)

(Shaft sinking)

TYURIN, K.M., inzh.; SYCHEV, A.S., inzh.; PRAGER, V.A., inzh.; BABADZHAN,
D.M., inzh.

Investigation and development of a lining for a shaft sunk
under particularly difficult hydrogeological conditions.

Trudy VNIOMSHSa no.15:94-114 '64.

(MIRA 18:2)